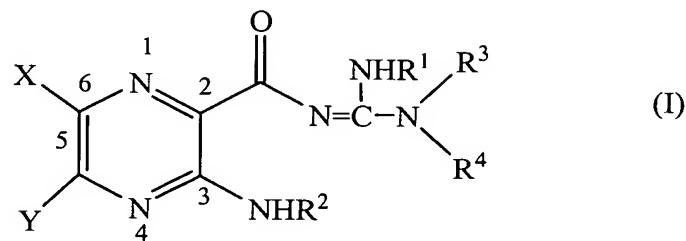


IN THE CLAIMS

The status of each claim in the application is provided below:

Claims 1-124: Canceled.

125. (Currently Amended) A method of effecting in a subject at least one member selected from the group consisting of promoting hydration of mucosal surfaces, promoting ocular hydration, promoting corneal hydration, promoting mucus clearance in mucosal surfaces, restoring mucosal defense, preventing ventilator-induced pneumonia, treating chronic bronchitis, treating cystic fibrosis, treating sinusitis, treating vaginal dryness, treating dry eye, treating Sjogren's disease, treating distal intestinal obstruction syndrome, treating dry skin, treating esophagitis, treating dry mouth (xerostomia), treating nasal dehydration, treating chronic obstructive pulmonary disease, treating emphysema, treating pneumonia, treating constipation, treating chronic diverticulitis, treating rhinosinusitis, treating asthma, treating primary ciliary dyskinesia, and treating otitis media, administering to a subject an effective amount of a compound represented by formula (I):



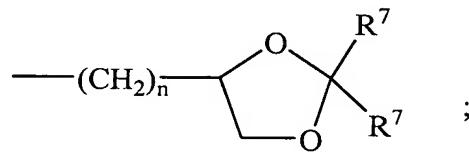
wherein

X is hydrogen, halogen, trifluoromethyl, lower alkyl, unsubstituted or substituted phenyl, lower alkyl-thio, phenyl-lower alkyl-thio, lower alkyl-sulfonyl, or phenyl-lower alkyl-sulfonyl;

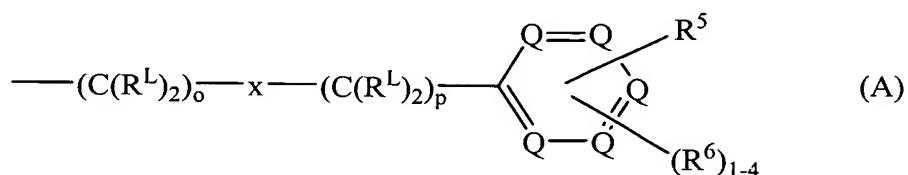
Y is hydrogen, hydroxyl, mercapto, lower alkoxy, lower alkyl-thio, halogen, lower alkyl, unsubstituted or substituted mononuclear aryl, or $-N(R^2)_2$;

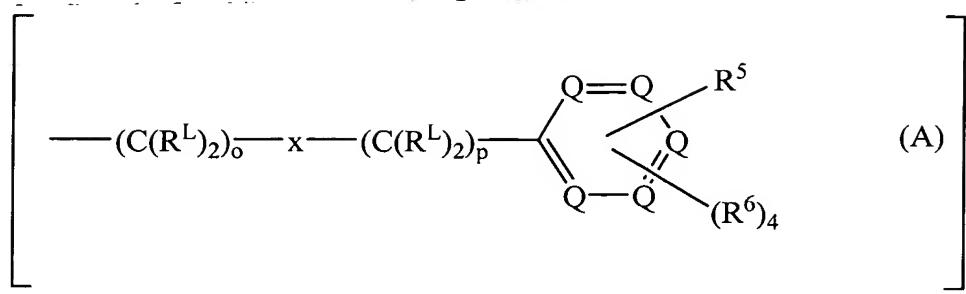
R^1 is hydrogen or lower alkyl;

each R^2 is, independently, $-R^7$, $-(CH_2)_m-OR^8$, $-(CH_2)_m-NR^7R^{10}$, $-(CH_2)_n(CHOR^8)(CHOR^8)_n-CH_2OR^8$, $-(CH_2CH_2O)_m-R^8$, $-(CH_2CH_2O)_m-CH_2CH_2NR^7R^{10}$, $-(CH_2)_n-C(=O)NR^7R^{10}$, $-(CH_2)_n-Z_g-R^7$, $-(CH_2)_m-NR^{10}-CH_2(CHOR^8)(CHOR^8)_n-CH_2OR^8$, $-(CH_2)_n-CO_2R^7$, or



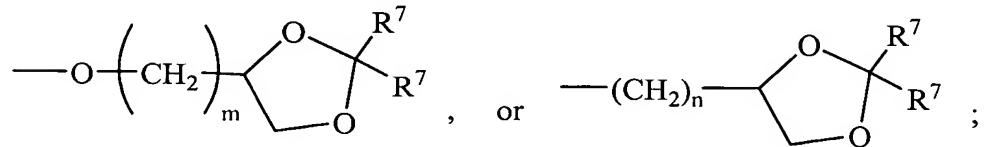
R^3 and R^4 are each, independently, hydrogen, a group represented by formula (A), lower alkyl, hydroxy lower alkyl, phenyl, phenyl-lower alkyl, (halophenyl)-lower alkyl, lower-(alkylphenylalkyl), lower (alkoxyphenyl)-lower alkyl, naphthyl-lower alkyl, or pyridyl-lower alkyl, with the proviso that at least one of R^3 and R^4 is a group represented by formula (A):





wherein

each R^L is, independently, $-R^7$, $-(CH_2)_n-OR^8$, $-O-(CH_2)_m-OR^8$,
 $-(CH_2)_n-NR^7R^{10}$, $-O-(CH_2)_m-NR^7R^{10}$, $-(CH_2)_n(CHOR^8)(CHOR^8)_n-CH_2OR^8$,
 $-O-(CH_2)_m(CHOR^8)(CHOR^8)_n-CH_2OR^8$, $-(CH_2CH_2O)_m-R^8$,
 $-O-(CH_2CH_2O)_m-R^8$, $-(CH_2CH_2O)_m-CH_2CH_2NR^7R^{10}$,
 $-O-(CH_2CH_2O)_m-CH_2CH_2NR^7R^{10}$, $-(CH_2)_n-C(=O)NR^7R^{10}$,
 $-O-(CH_2)_m-C(=O)NR^7R^{10}$, $-(CH_2)_n-(Z)_g-R^7$, $-O-(CH_2)_m-(Z)_g-R^7$,
 $-(CH_2)_n-NR^{10}-CH_2(CHOR^8)(CHOR^8)_n-CH_2OR^8$,
 $-O-(CH_2)_m-NR^{10}-CH_2(CHOR^8)(CHOR^8)_n-CH_2OR^8$,
 $-(CH_2)_n-CO_2R^7$, $-O-(CH_2)_m-CO_2R^7$, $-OSO_3H$, $-O$ -glucuronide, $-O$ -glucose,



each o is, independently, an integer from 0 to 10;

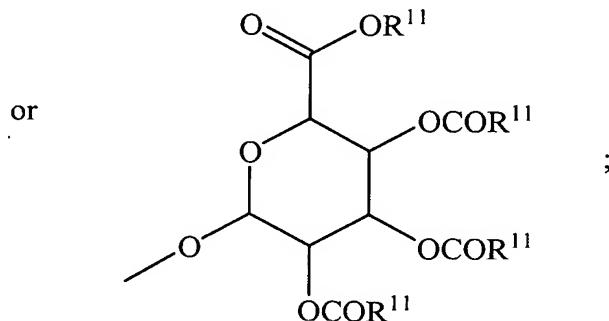
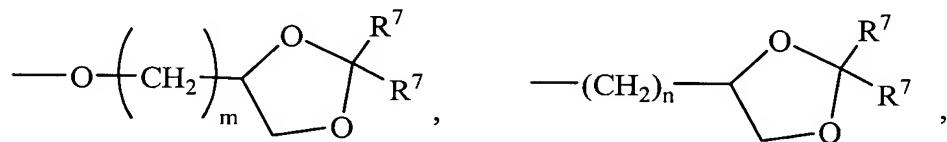
each p is an integer from 0 to 10;

with the proviso that the sum of o and p in each contiguous chain is from 1 to 10;

each x is, independently, O , NR^{10} , $C(=O)$, $CHOH$, $C(=N-R^{10})$,

$\text{CHNR}^7\text{R}^{10}$, or represents a single bond;

each R^5 is, independently, $-(\text{CH}_2)_m\text{OR}^8$, $-\text{O}-(\text{CH}_2)_m\text{OR}^8$,
 $-(\text{CH}_2)_n\text{NR}^7\text{R}^{10}$, $-\text{O}-(\text{CH}_2)_m\text{NR}^7\text{R}^{10}$, $-(\text{CH}_2)_n(\text{CHOR}^8)(\text{CHOR}^8)_n\text{CH}_2\text{OR}^8$,
 $-\text{O}-(\text{CH}_2)_m(\text{CHOR}^8)(\text{CHOR}^8)_n\text{CH}_2\text{OR}^8$, $-(\text{CH}_2\text{CH}_2\text{O})_m\text{R}^8$,
 $-\text{O}-(\text{CH}_2\text{CH}_2\text{O})_m\text{R}^8$, $-(\text{CH}_2\text{CH}_2\text{O})_m\text{CH}_2\text{CH}_2\text{NR}^7\text{R}^{10}$,
 $-\text{O}-(\text{CH}_2\text{CH}_2\text{O})_m\text{CH}_2\text{CH}_2\text{NR}^7\text{R}^{10}$, $-(\text{CH}_2)_n\text{C}(=\text{O})\text{NR}^7\text{R}^{10}$,
 $-\text{O}-(\text{CH}_2)_m\text{C}(=\text{O})\text{NR}^7\text{R}^{10}$, $-(\text{CH}_2)_n-(\text{Z})_g\text{R}^7$, $-\text{O}-(\text{CH}_2)_m-(\text{Z})_g\text{R}^7$,
 $-(\text{CH}_2)_n\text{NR}^{10}\text{CH}_2(\text{CHOR}^8)(\text{CHOR}^8)_n\text{CH}_2\text{OR}^8$,
 $-\text{O}-(\text{CH}_2)_m\text{NR}^{10}\text{CH}_2(\text{CHOR}^8)(\text{CHOR}^8)_n\text{CH}_2\text{OR}^8$,
 $-(\text{CH}_2)_n\text{CO}_2\text{R}^7$, $-\text{O}-(\text{CH}_2)_m\text{CO}_2\text{R}^7$, $-\text{OSO}_3\text{H}$, $-\text{O}\text{-glucuronide}$, $-\text{O}\text{-glucose}$,



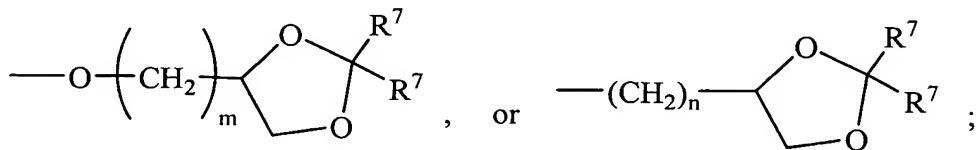
each R^6 is, independently, $-\text{R}^7$, $-\text{OR}^{11}$, $-\text{N}(\text{R}^7)_2$, $-(\text{CH}_2)_m\text{OR}^8$,
 $-\text{O}-(\text{CH}_2)_m\text{OR}^8$, $-(\text{CH}_2)_n\text{NR}^7\text{R}^{10}$, $-\text{O}-(\text{CH}_2)_m\text{NR}^7\text{R}^{10}$,
 $-(\text{CH}_2)_n(\text{CHOR}^8)(\text{CHOR}^8)_n\text{CH}_2\text{OR}^8$, $-\text{O}-(\text{CH}_2)_m(\text{CHOR}^8)(\text{CHOR}^8)_n\text{CH}_2\text{OR}^8$,
 $-(\text{CH}_2\text{CH}_2\text{O})_m\text{R}^8$, $-\text{O}-(\text{CH}_2\text{CH}_2\text{O})_m\text{R}^8$, $-(\text{CH}_2\text{CH}_2\text{O})_m\text{CH}_2\text{CH}_2\text{NR}^7\text{R}^{10}$,
 $-\text{O}-(\text{CH}_2\text{CH}_2\text{O})_m\text{CH}_2\text{CH}_2\text{NR}^7\text{R}^{10}$, $-(\text{CH}_2)_n\text{C}(=\text{O})\text{NR}^7\text{R}^{10}$,

$-\text{O}-(\text{CH}_2)_m-\text{C}(=\text{O})\text{NR}^7\text{R}^{10}, -(\text{CH}_2)_n-(\text{Z})_g-\text{R}^7, -\text{O}-(\text{CH}_2)_m-(\text{Z})_g-\text{R}^7,$

$-(\text{CH}_2)_n-\text{NR}^{10}-\text{CH}_2(\text{CHOR}^8)(\text{CHOR}^8)_n-\text{CH}_2\text{OR}^8,$

$-\text{O}-(\text{CH}_2)_m-\text{NR}^{10}-\text{CH}_2(\text{CHOR}^8)(\text{CHOR}^8)_n-\text{CH}_2\text{OR}^8,$

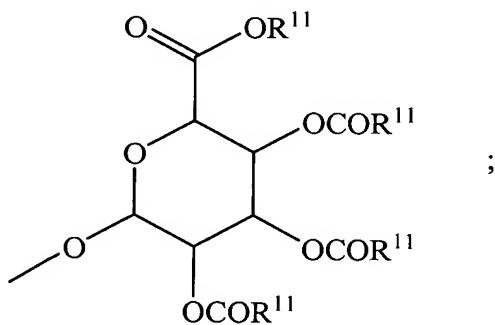
$-(\text{CH}_2)_n-\text{CO}_2\text{R}^7, -\text{O}-(\text{CH}_2)_m-\text{CO}_2\text{R}^7, -\text{OSO}_3\text{H}, -\text{O}-\text{glucuronide}, -\text{O}-\text{glucose},$



wherein when two R^6 are $-\text{OR}^{11}$ and are located adjacent to each other on a phenyl ring, the alkyl moieties of the two R^6 may be bonded together to form a methylenedioxy group;

each R^7 is, independently, hydrogen or lower alkyl;

each R^8 is, independently, hydrogen, lower alkyl, $-\text{C}(=\text{O})-\text{R}^{11}$, glucuronide, 2-tetrahydropyranyl, or



each R^9 is, independently, $-\text{CO}_2\text{R}^7, -\text{CON}(\text{R}^7)_2, -\text{SO}_2\text{CH}_3$, or $-\text{C}(=\text{O})\text{R}^7$;

each R^{10} is, independently, $-\text{H}, -\text{SO}_2\text{CH}_3, -\text{CO}_2\text{R}^7, -\text{C}(=\text{O})\text{NR}^7\text{R}^9,$

$-\text{C}(=\text{O})\text{R}^7$, or $-\text{CH}_2-(\text{CHOH})_n-\text{CH}_2\text{OH}$;

each Z is, independently, CHOH, C(=O), CHNR⁷R¹⁰, C=NR¹⁰, or NR¹⁰;

each R¹¹ is, independently, lower alkyl;

each g is, independently, an integer from 1 to 6;

each m is, independently, an integer from 1 to 7;

each n is, independently, an integer from 0 to 7;

each Q is, independently, C-R⁵, C-R⁶; or a nitrogen atom, wherein at most 3 Q in a ring is a nitrogen atom;

or a pharmaceutically acceptable salt thereof, and

inclusive of all enantiomers, diastereomers, and racemic mixtures thereof.

126. (Previously Presented) The method of Claim 125, wherein the subject is human.

127. (Previously Presented) The method of Claim 125, wherein promoting hydration of mucosal surfaces is effected.

128. (Previously Presented) The method of Claim 125, wherein promoting ocular hydration is effected.

129. (Previously Presented) The method of Claim 125, wherein promoting corneal hydration is effected.

130. (Previously Presented) The method of Claim 125, wherein promoting mucus clearance in mucosal surfaces is effected.

131. (Previously Presented) The method of Claim 125, wherein restoring mucosal defense is effected.

132. (Previously Presented) The method of Claim 125, wherein preventing ventilator-induced pneumonia is effected.

133. (Previously Presented) The method of Claim 125, wherein treating chronic bronchitis is effected.

134. (Previously Presented) The method of Claim 125, wherein treating cystic fibrosis is effected.

135. (Previously Presented) The method of Claim 125, wherein treating sinusitis is effected.

136. (Previously Presented) The method of Claim 125, wherein treating vaginal dryness is effected.

137. (Previously Presented) The method of Claim 125, wherein treating dry eye is effected.

138. (Previously Presented) The method of Claim 125, wherein treating Sjogren's disease is effected.

139. (Previously Presented) The method of Claim 125, wherein treating distal intestinal obstruction syndrome is effected.

140. (Previously Presented) The method of Claim 125, wherein treating dry skin is effected.

141. (Previously Presented) The method of Claim 125, wherein treating esophagitis is effected.

142. (Previously Presented) The method of Claim 125, wherein treating dry mouth (xerostomia) is effected.

143. (Previously Presented) The method of Claim 125, wherein treating nasal dehydration is effected.

144. (Previously Presented) The method of Claim 125, wherein treating chronic obstructive pulmonary disease is effected.

145. (Previously Presented) The method of Claim 125, wherein treating emphysema is effected.

146. (Previously Presented) The method of Claim 125, wherein treating pneumonia, treating constipation is effected.

147. (Previously Presented) The method of Claim 125, wherein treating chronic diverticulitis is effected.

148. (Previously Presented) The method of Claim 125, wherein treating rhinosinusitis is effected.

149. (Previously Presented) The method of Claim 125, wherein treating asthma is effected.

150. (Previously Presented) The method of Claim 125, wherein treating primary ciliary dyskinesia is effected.

151. (Previously Presented) The method of Claim 125, wherein treating otitis media is effected.

152. (Previously Presented) The method of Claim 125, wherein Y is -NH₂.

153. (Previously Presented) The method of Claim 152, wherein R² is hydrogen.

154. (Previously Presented) The method of Claim 153, wherein R¹ is hydrogen.

155. (Previously Presented) The method of Claim 154, wherein X is chlorine.

156. (Previously Presented) The method of Claim 155, wherein R³ is hydrogen.

157. (Previously Presented) The method of Claim 156, wherein each R^L is hydrogen.

158. (Previously Presented) The method of Claim 157, wherein o is 4.

159. (Previously Presented) The method of Claim 158, wherein p is 0.

160. (Previously Presented) The method of Claim 159, wherein x represents a single bond.

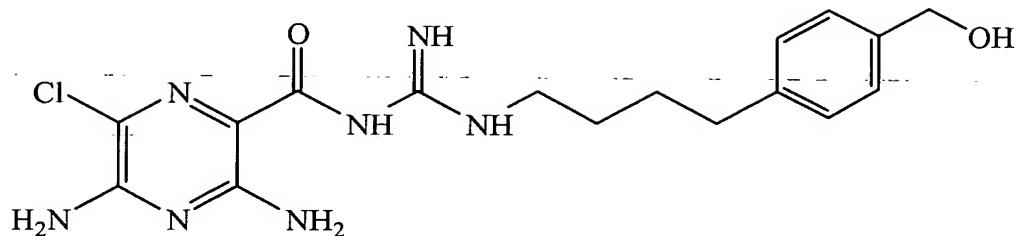
161. (Previously Presented) The method of Claim 160, wherein each R^6 is hydrogen.

162. (Previously Presented) The method of Claim 161, wherein at most one Q in a ring is a nitrogen atom.

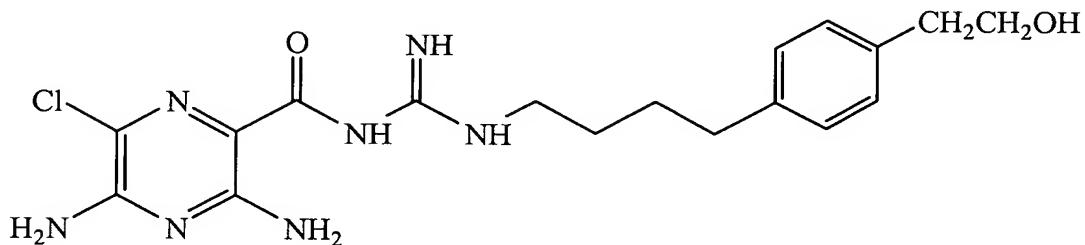
163. (Previously Presented) The method of Claim 162, wherein no Q is a nitrogen atom.

164. (Previously Presented) The method of Claim 161, wherein R^5 is $-(CH_2)_m-OR^8$.

165. (Previously Presented) The method of Claim 164, wherein the compound is represented by the formula:

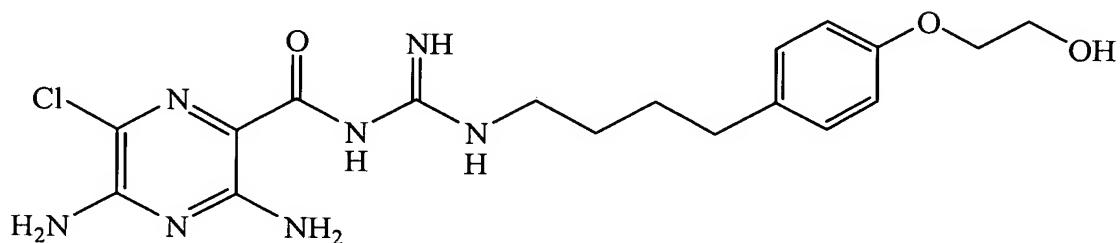


166. (Previously Presented) The method of Claim 164, wherein the compound is represented by the formula:

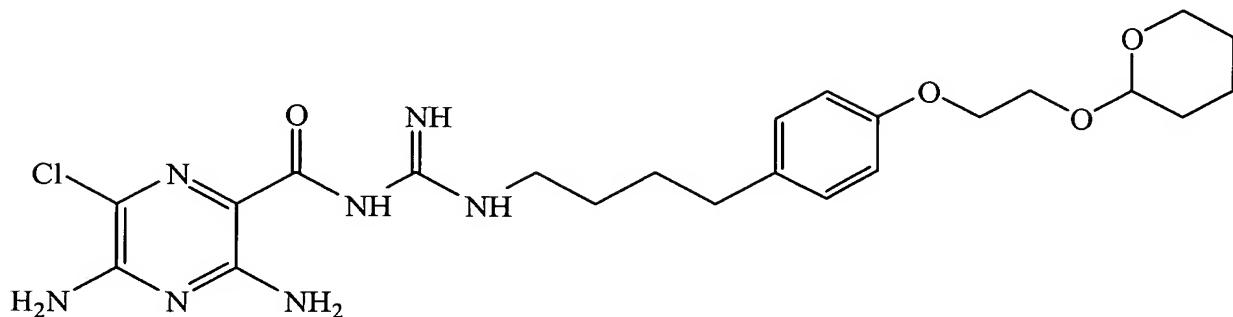


167. (Previously Presented) The method of Claim 161, wherein R^5 is $-O-(CH_2)_m-$ OR⁸.

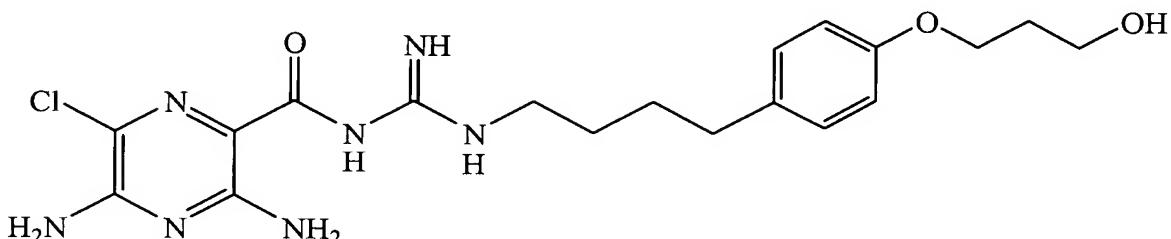
168. (Previously Presented) The method of Claim 167, wherein the compound is represented by the formula:



169. (Previously Presented) The method of Claim 167, wherein the compound is represented by the formula:

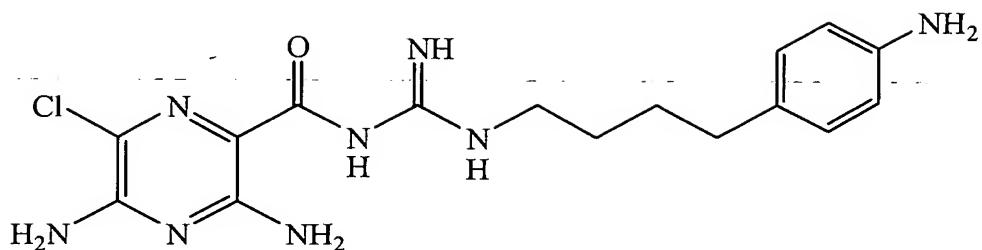


170. (Previously Presented) The method of Claim 167, wherein the compound is represented by the formula:



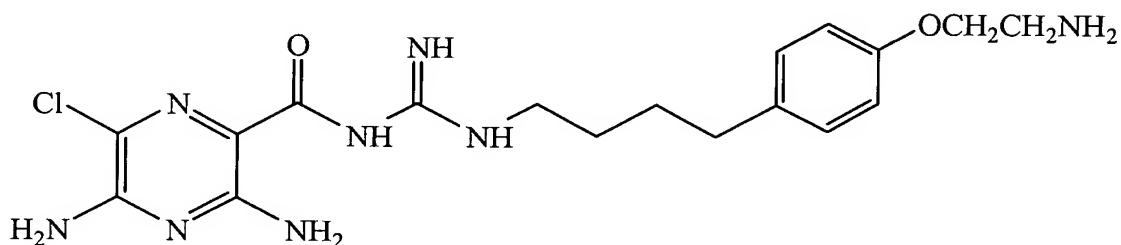
171. (Previously Presented) The method of Claim 161, wherein R^5 is $-(CH_2)_n-$ NR^7R^{10} .

172. (Previously Presented) The method of Claim 171, wherein the compound is represented by the formula:

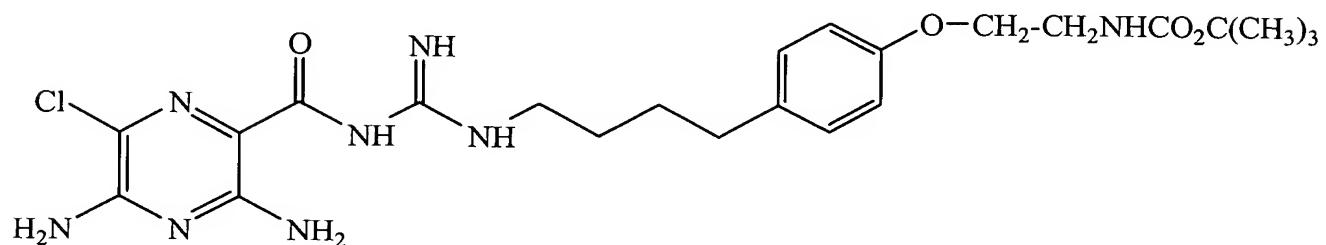


173. (Previously Presented) The method of Claim 161, wherein R^5 is $-O-(CH_2)_m-$
 NR^7R^{10} .

174. (Previously Presented) The method of Claim 173, wherein the compound is represented by the formula:



175. (Previously Presented) The method of Claim 173, wherein the compound is represented by the formula:

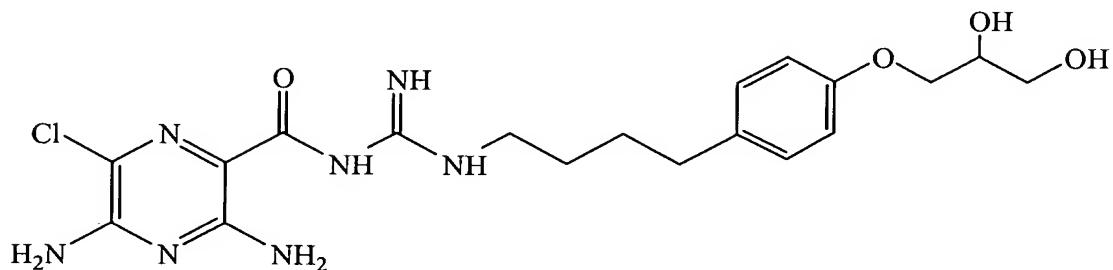


176. (Previously Presented) The method of Claim 161, wherein R^5 is

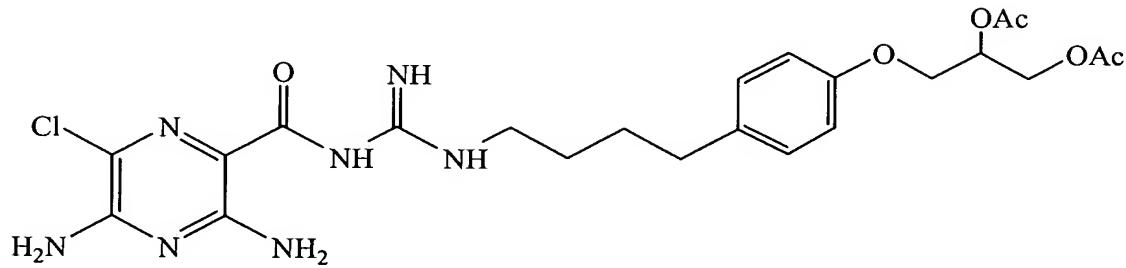
$-(CH_2)_n(CHOR^8)(CHOR^8)_n-CH_2OR^8$.

177. (Previously Presented) The method of Claim 161, wherein R^5 is $-O-(CH_2)_m(CHOR^8)(CHOR^8)_n-CH_2OR^8$.

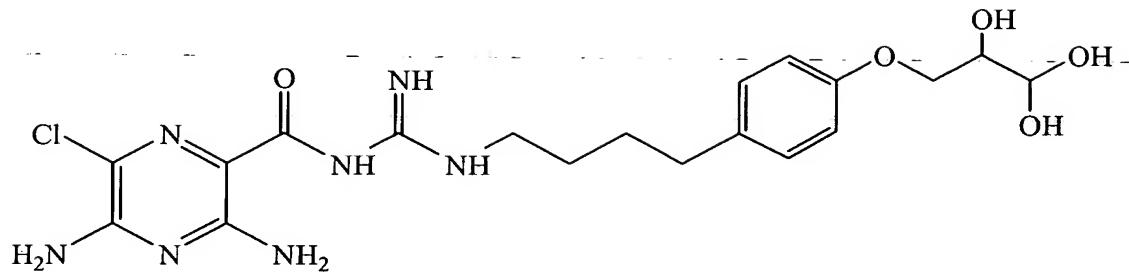
178. (Previously Presented) The method of Claim 177, wherein the compound is represented by the formula:



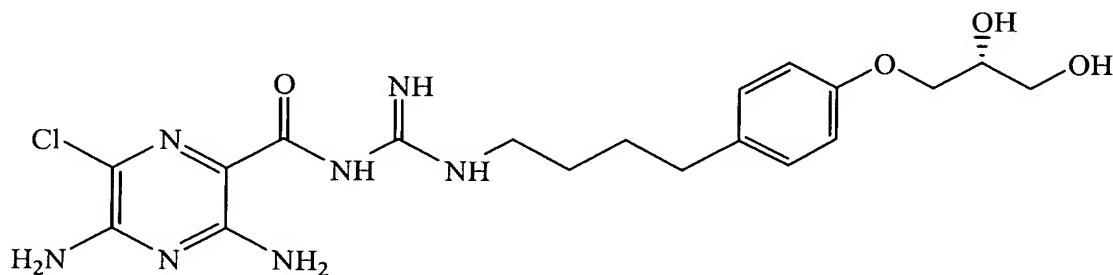
179. (Previously Presented) The method of Claim 177, wherein the compound is represented by the formula:



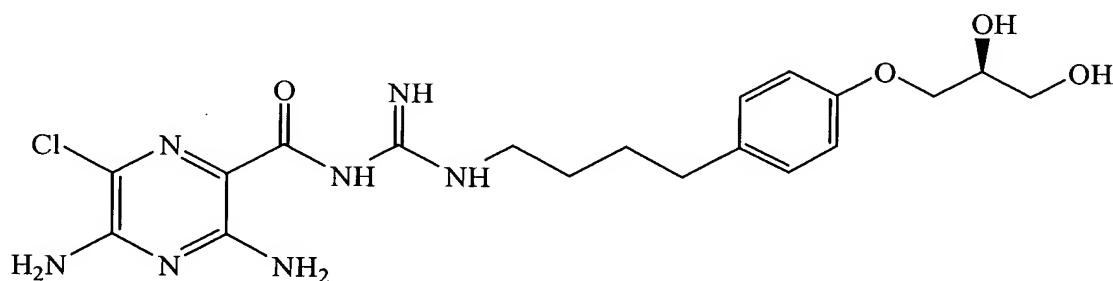
180. (Previously Presented) The method of Claim 177, wherein the compound is represented by the formula:



181. (Previously Presented) The method of Claim 177, wherein the compound is represented by the formula:



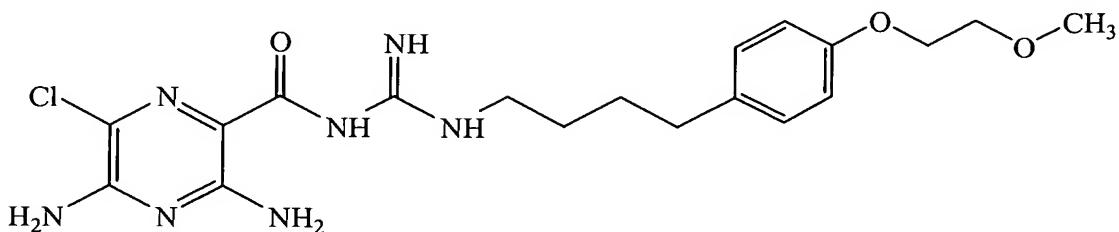
182. (Previously Presented) The method of Claim 177, wherein the compound is represented by the formula:



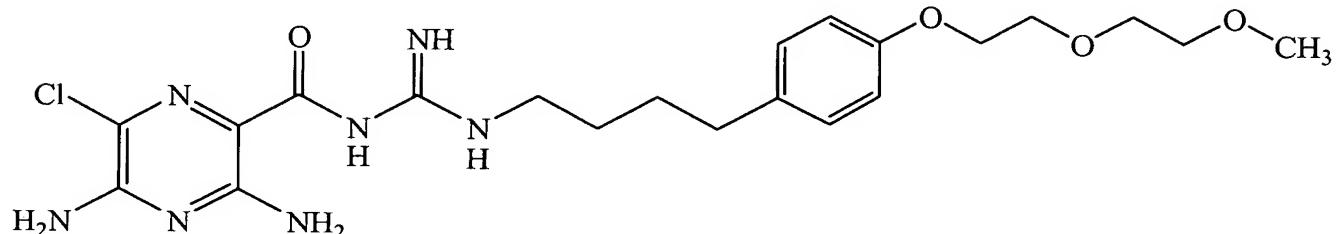
183. (Previously Presented) The method of Claim 161, wherein R^5 is $-(CH_2CH_2O)_m-$
 R^8 .

184. (Previously Presented) The method of Claim 161, wherein R⁵ is -O-(CH₂CH₂O)_m-R⁸.

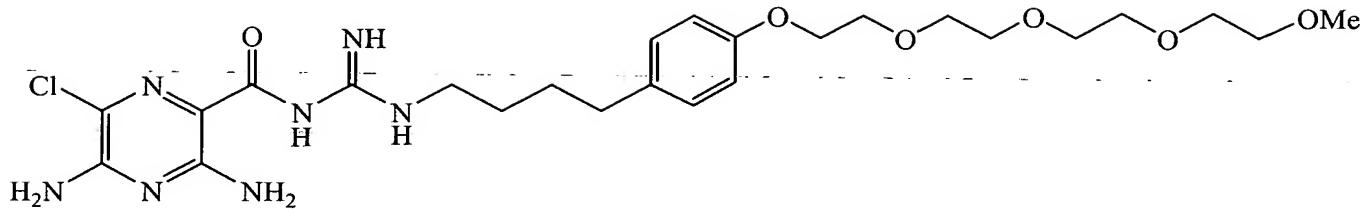
185. (Previously Presented) The method of Claim 184, wherein the compound is represented by the formula:



186. (Previously Presented) The method of Claim 184, wherein the compound is represented by the formula:



187. (Previously Presented) The method of Claim 184, wherein the compound is represented by the formula:



188. (Previously Presented) The method of Claim 161, wherein R^5 is $-(CH_2CH_2O)_m-$
 $CH_2CH_2NR^7R^{10}$.

189. (Previously Presented) The method of Claim 161, wherein R^5 is $-O-$
 $(CH_2CH_2O)_m-CH_2CH_2NR^7R^{10}$.

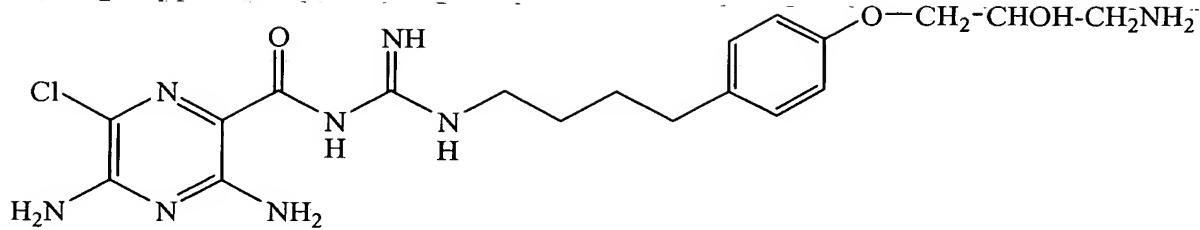
190. (Previously Presented) The method of Claim 161, wherein R^5 is $-(CH_2)_n-$
 $C(=O)NR^7R^{10}$.

191. (Previously Presented) The method of Claim 161, wherein R^5 is $-O-(CH_2)_m-$
 $C(=O)NR^7R^{10}$.

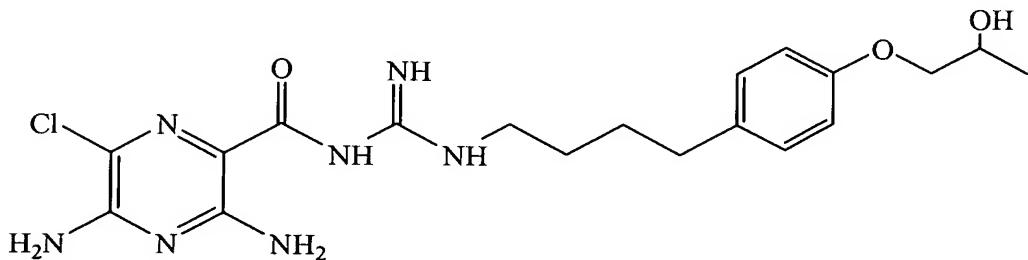
192. (Previously Presented) The method of Claim 161, wherein R^5 is $-(CH_2)_n-(Z)_g-$
 R^7 .

193. (Previously Presented) The method of Claim 161, wherein R^5 is $-O-(CH_2)_m-$
 $(Z)_o-R^7$.

194. (Previously Presented) The method of Claim 193, wherein the compound is represented by the formula:



195. (Previously Presented) The method of Claim 193, wherein the compound is represented by the formula:



196. (Previously Presented) The method of Claim 161, wherein R^5 is $-(CH_2)_n-NR^{10}-CH_2(CHOR^8)(CHOR^8)_n-CH_2OR^8$.

197. (Previously Presented) The method of Claim 161, wherein R^5 is $-O-(CH_2)_m-NR^{10}-CH_2(CHOR^8)(CHOR^8)_n-CH_2OR^8$.

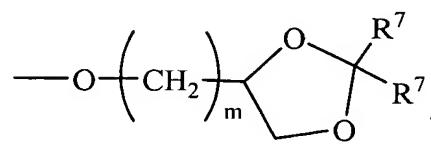
198. (Previously Presented) The method of Claim 161, wherein R^5 is $-O-(CH_2)_m-CO_2R^7$.

199. (Previously Presented) The method of Claim 161, wherein R^5 is $-OSO_3H$.

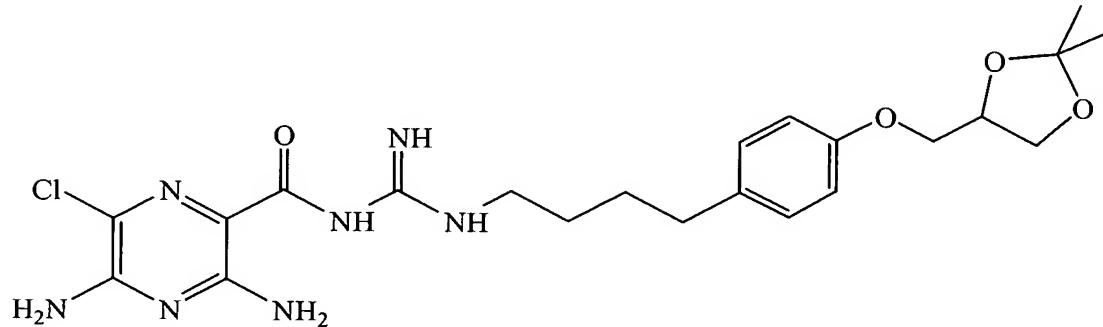
200. (Previously Presented) The method of Claim 161, wherein R⁵ is -O-glucuronide.

201. (Previously Presented) The method of Claim 161, wherein R⁵ is -O-glucose.

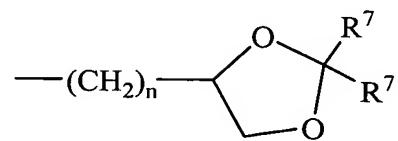
202. (Previously Presented) The method of Claim 161, wherein R⁵ is



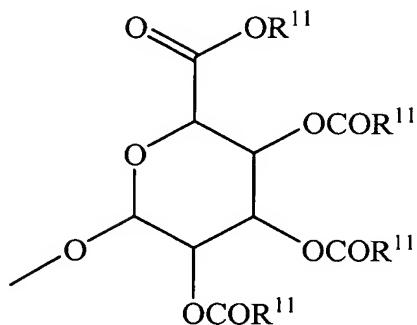
203. (Previously Presented) The method of Claim 202, wherein the compound is represented by the formula:



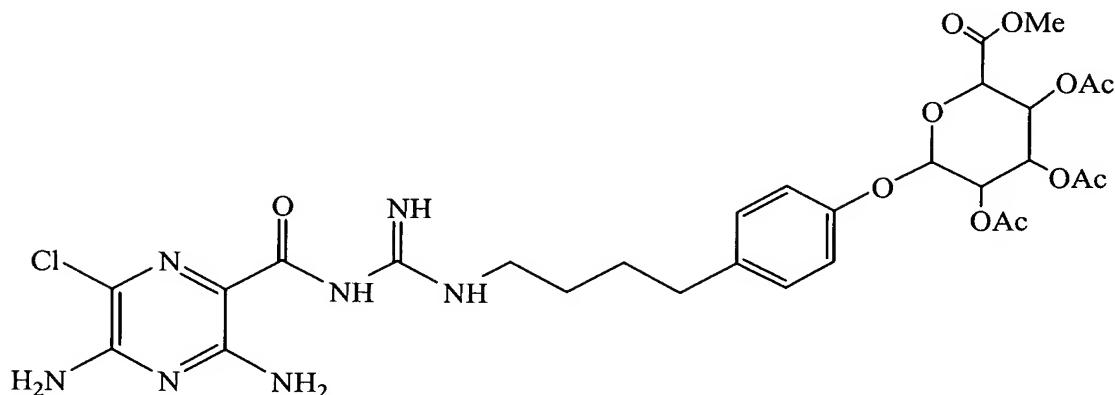
204. (Previously Presented) The method of Claim 161, wherein R⁵ is



205. (Previously Presented) The method of Claim 161, wherein R^5 is



206. (Previously Presented) The method of Claim 205, wherein the compound is represented by the formula:



207. (Previously Presented) The method of Claim 125, wherein

X is halogen;

Y is $-\text{N}(\text{R}^7)_2$;

R^1 is hydrogen or $\text{C}_1\text{-C}_3$ alkyl;

R^2 is $-\text{R}^7$, $-(\text{CH}_2)_m\text{-OR}^8$, or $-(\text{CH}_2)_n\text{-CO}_2\text{R}^7$;

R^3 is a group represented by formula (A); and

R^4 is hydrogen, a group represented by formula (A), or lower alkyl.

208. (Previously Presented) The method of Claim 207, wherein

X is chloro or bromo;

Y is $-N(R^7)_2$;

R^2 is hydrogen or C_1-C_3 alkyl;

at most three R^6 are other than hydrogen as defined above;

at most three R^L are other than hydrogen as defined above; and

at most 2 Q in a ring are nitrogen atoms.

209. (Previously Presented) The method of Claim 208, wherein Y is $-NH_2$.

210. (Previously Presented) The method of Claim 209, wherein R^4 is hydrogen;

at most one R^L is other than hydrogen as defined above;

at most two R^6 are other than hydrogen as defined above; and

at most 1 Q in a ring is a nitrogen atom.

211. (Previously Presented) The method of Claim 210, wherein no Q in a ring is a nitrogen atom.

212. (Previously Presented) The method of Claim 125, wherein R^5 is $-(CH_2)_m-OR^8$.

213. (Previously Presented) The method of Claim 125, wherein R^5 is $-O-(CH_2)_m-OR^8$.

214. (Previously Presented) The method of Claim 125, wherein R⁵ is -(CH₂)_n-NR⁷R¹⁰.

215. (Previously Presented) The method of Claim 125, wherein R⁵ is -O-(CH₂)_m-NR⁷R¹⁰.

216. (Previously Presented) The method of Claim 125, wherein R⁵ is -(CH₂)_n(CHOR⁸)(CHOR⁸)_n-CH₂OR⁸.

217. (Previously Presented) The method of Claim 125, wherein R⁵ is -O-(CH₂)_m(CHOR⁸)(CHOR⁸)_n-CH₂OR⁸.

218. (Previously Presented) The method of Claim 125, wherein R⁵ is -(CH₂CH₂O)_m-R⁸.

219. (Previously Presented) The method of Claim 125, wherein R⁵ is -O-(CH₂CH₂O)_m-R⁸.

220. (Previously Presented) The method of Claim 125, wherein R⁵ is -(CH₂CH₂O)_m-CH₂CH₂NR⁷R¹⁰.

221. (Previously Presented) The method of Claim 125, wherein R⁵ is -O-(CH₂CH₂O)_m-CH₂CH₂NR⁷R¹⁰.

222. (Previously Presented) The method of Claim 125, wherein R⁵ is -(CH₂)_n-C(=O)NR⁷R¹⁰.

223. (Previously Presented) The method of Claim 125, wherein R⁵ is -O-(CH₂)_m-C(=O)NR⁷R¹⁰.

224. (Previously Presented) The method of Claim 125, wherein R⁵ is -(CH₂)_n-(Z)_g-R⁷.

225. (Previously Presented) The method of Claim 125, wherein R⁵ is -O-(CH₂)_m-(Z)_g-R⁷.

226. (Previously Presented) The method of Claim 125, wherein R⁵ is -(CH₂)_n-NR¹⁰-CH₂(CHOR⁸)(CHOR⁸)_n-CH₂OR⁸.

227. (Previously Presented) The method of Claim 125, wherein R⁵ is -O-(CH₂)_m-NR¹⁰-CH₂(CHOR⁸)(CHOR⁸)_n-CH₂OR⁸.

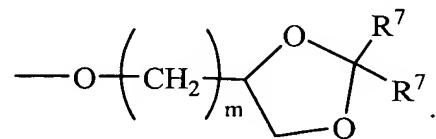
228. (Previously Presented) The method of Claim 125, wherein R⁵ is -O-(CH₂)_m-CO₂R⁷.

229. (Previously Presented) The method of Claim 125, wherein R⁵ is -OSO₃H.

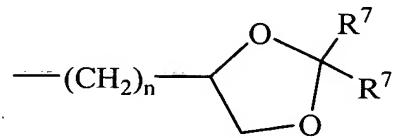
230. (Previously Presented) The method of Claim 125, wherein R⁵ is -O-glucuronide.

231. (Previously Presented) The method of Claim 125, wherein R⁵ is -O-glucose.

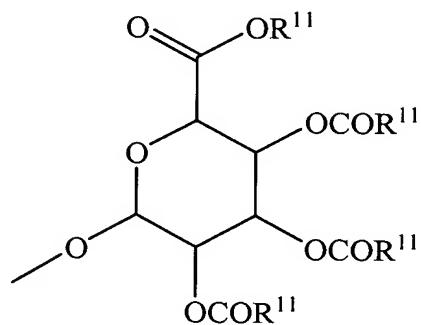
232. (Previously Presented) The method of Claim 125, wherein R⁵ is



233. (Previously Presented) The method of Claim 125, wherein R⁵ is



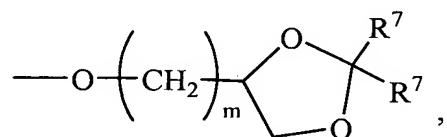
234. (Previously Presented) The method of Claim 125, wherein R⁵ is



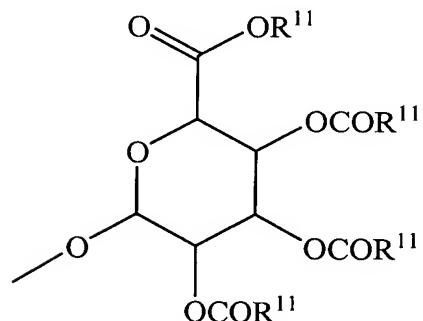
235. (Previously Presented) The method of Claim 125, wherein R⁵ is selected from the group consisting of

-O-(CH₂)₃-OH, -NH₂, -O-CH₂-(CHOH)₂-CH₂OH, -O-CH₂-CHOH-CH₂OH,

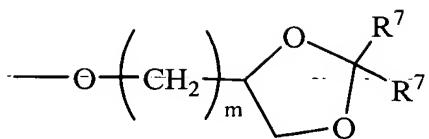
-O-CH₂CH₂-O-tetrahydropyran-2-yl, -O-CH₂CHOH-CH₂-O-glucuronide,
-O-CH₂CH₂OH, -O-(CH₂CH₂O)₄-CH₃, -O-CH₂CH₂OCH₃,
-O-CH₂-(CHOC(=O)CH₃)-CH₂-OC(=O)CH₃, -O-(CH₂CH₂O)₂-CH₃,
-OCH₂-CHOH-CHOH-CH₂OH, -CH₂OH, -CO₂CH₃,



and

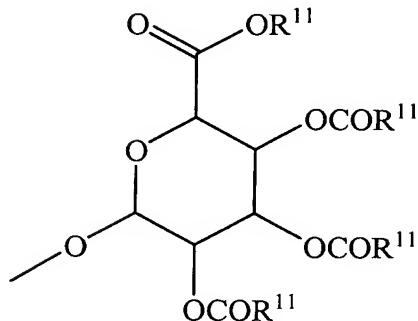


236. (Previously Presented) The method of Claim 125, wherein R⁵ is selected from the group consisting of para -O-(CH₂)₃-OH, para -NH₂, para -O-CH₂-(CHOH)₂-CH₂OH, ortho -O-CH₂-CHOH-CH₂OH, meta -O-CH₂-CHOH-CH₂OH, para -O-CH₂CH₂-O-tetrahydropyran-2-yl, para -O-CH₂CHOH-CH₂-O-glucuronide, para -O-CH₂CH₂OH, para -O-(CH₂CH₂O)₄-CH₃, para -O-CH₂CH₂OCH₃, para -O-CH₂-(CHOC(=O)CH₃)-CH₂-OC(=O)CH₃, para -O-(CH₂CH₂O)₂-CH₃, -OCH₂-CHOH-CHOH-CH₂OH, para -CH₂OH, para -CO₂CH₃, para -SO₃H, para -O-glucuronide, para



and

para



237. (Previously Presented) The method of Claim 235, wherein

X is chloro or bromo;

Y is $-\text{N}(\text{R}^7)_2$;

R^1 is hydrogen or $\text{C}_1\text{-C}_3$ alkyl;

R^2 is hydrogen or $\text{C}_1\text{-C}_3$ alkyl;

R^3 is a group represented by formula (A); and

R^4 is hydrogen, a group represented by formula (A), or lower alkyl;

at most three R^6 are other than hydrogen as defined above; and

at most three R^L are other than hydrogen as defined above.

238. (Previously Presented) The method of Claim 237, wherein

R^4 is hydrogen;

at most one R^L is other than hydrogen as defined above; and

at most two R^6 are other than hydrogen as defined above.

239. (Previously Presented) The method of Claim 236, wherein
X is chloro or bromo;
Y is -N(R⁷)₂;
R¹ is hydrogen or C₁-C₃ alkyl;
R² is hydrogen or C₁-C₃ alkyl;
R³ is a group represented by formula (A); and
R⁴ is hydrogen, a group represented by formula (A), or lower alkyl;
at most three R⁶ are other than hydrogen as defined above; and
at most three R^L are other than hydrogen as defined above.

240. (Previously Presented) The method of Claim 239, wherein
R⁴ is hydrogen;
at most one R^L is other than hydrogen as defined above; and
at most two R⁶ are other than hydrogen as defined above.

241. (Previously Presented) The method of Claim 125, wherein x is a single bond.

242. (Previously Presented) The method of Claim 125, wherein the compound is in
the form of a pharmaceutically acceptable salt.

243. (Previously Presented) The method of Claim 125, wherein the compound is in
the form of a hydrochloride salt.

244. (Previously Presented) The method of Claim 125, wherein the compound is in the form of a mesylate salt.

245. (Previously Presented) The method of Claim 125, wherein the compound is administered as a pharmaceutical composition which also comprises a acceptable carrier.

246. (Previously Presented) The method of Claim 125, wherein the compound is administered as a pharmaceutical composition which also comprises a bronchodilator.